California Environmental Protection Agency **⊘** Air Resources Board

Honda Motor Co., Ltd.

EXECUTIVE ORDER U-U-001-0859 New Off-Road Small Spark-Ignition Engines at or Below 19 Kilowatts

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapters 1 and 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-14-012;

IT IS ORDERED AND RESOLVED: That the following engine and emission control systems produced by the manufacturer are certified for use in small off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGI	NE FAMILY	DISPLACEMENT (cc)	ENGINE	CLASS	FUEL TYPE (CNG/LNG=compressed/liquefied natural gas LPG=liquefied petroleum gas)		
2018	JHNX	S.2702AB	270	4-stroke, ≥ 225 cc		Gasoline		
DURABILITY HOURS			SPECIAL FEATURES		TYPICAL EQUIPMENT APPLICATION			
1000			EM	Walk-Behind Lawnmower, Riding Mower, Compressor, Pump, Generator Set, Tiller				
ENGINE CODES/MODELS (rated power in kilowatt, kW)		See Attachment						
EGR=exhaust	gas recirc	ulation AlR≂seco	ondary air injection PAIR=p	ulsed AlR MFI=m∟	ilti port fuel inje	warm-up TWC/OC O2S=oxygen sensor HO2S=heated O2S ction SFI=sequential MFI TBI=throttle body fuel injection fix)=in series ECM=engine control module		

The following are the hydrocarbon plus oxides of nitrogen (HC+NOx), carbon monoxide (CO), and particulate matter (PM) emission standards (Title 13, California Code of Regulations, (13 CCR) Section 2403(b)), and certification emission levels for this engine family in grams per kilowatt-hour (g/kW-hr). Éngines within this engine family shall have closed crankcases in conformance with Section 1054.115(a) of the "California Exhaust Emission Standards and Test Procedures for New 2013 and Later Small Off-Road Engines," adopted October 25, 2012.

*=not applicable	HC+NOx (g/kW-hr)	CO (g/kW-hr)	PM (g/kW-hr)
STANDARD	8.0	549	*
FAMILY EMISSION LEVEL	8.0	*	*
CERTIFICATION LEVEL	7.4	301	*

BE IT FURTHER RESOLVED: That the family emission level(s) (FELs), as applicable, is an emission limit declared by the manufacturer for use in the averaging, banking and trading program and in lieu of an emission standard for certification. It serves as the applicable emission standard for determining compliance of any engine within this engine family under 13 CCR Sections 2403(e)(1) and 2407(a).

BE IT FURTHER RESOLVED: That for the listed engines, the manufacturer has submitted, and the Executive Officer hereby approves, the information and materials to demonstrate certification compliance with 13 CCR Section 2404 (emission control labels) and 13 CCR Sections 2405 and 2406 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

Quarterly reports of engines produced in this engine family for sale in California shall be submitted to the Executive Officer no later than 45 days after the end of each calendar quarter.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this _____day of September 2017.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

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Model Year:

2018

Manufacturer: Honda Motor Co., Ltd.

Engine Family: JHNXS.2702AB

Issued:

4/10/2017

Revised: E.O. Number:

ATTACHMENT ploF2 E0#U-U-DOI-0859

Units for Table: kW

Small Off-Road Engine Model Summary Form

Worst Case?	Decidenties	48. Sales Code	49. Displ (cc)	50. Bore/ Stroke	51. Ignition Timing	52. Max Power	53. Rated Speed (RPM)	54. Rated Torque	55. Torque Speed (RPM)	56. Emiss Control Sys
	J2KH01A2-C	50-State	270	77.0/58.0	10° BTDC	6.3	3600	19.1 N.r	n 2500	EM .
	J2KH02A2-C	50-State	270	77.0/58.0	10° BTDC	6.3	3600	19.1 N.n	n 2500	EM
	J2KH0200-B	50-State	270	77.0/58.0	10° BTDC	6.3	3600	19.1 N.r	n 2500	EM
	J2KH0200R B	50-State	270	77.0/58.0	10° BTDC	6.3	3600	19.1 N.r	n 2500	EM
X	J2KH03A2-C	50-State	270	77.0/58.0	10° BTDC	6.3	3600	19.1 N.r	n 2500	EM
	J2KH04A2-C	50-State	270	77.0/58.0	10° BTDC	6.3	3600	19.1 N.r	n 2500	EM
	J2KH05G1-C	50-State	270	77.0/58.0	10° BTDC	6.3	3600	19.1 N.r	n 2500	EM
	J2KH06G1-C	50-State	270	77.0/58.0	10° BTDC	6.3	3600	19.1 N.r	n 2500	EM
	J2KH0700R B	50-State	270	77.0/58.0	10° BTDC	6.3	3600	19.1 N.r	n 2500	EM
	J2KH0800R B	50-State	270	77.0/58.0	10° BTDC	6.3	3600	19.1 N.r	n 2500	EM

Model Year:

2018

Manufacturer:

Engine Family: JHNXS.2702AB

Issued: Revised:

E.O. Number:

5/16/2017

ATTACHMENT pZOFZ GO#U-U-001-0859

Small Off-Road Engine Model Summary Form

Units for Table: kw

Worst Case?	Designation	48. Sales Code	49. Displ (cc)	50. Bore/ Stroke	51. Ignition Timing	52. Max Power	53. Rated Speed (RPM)	54. Rated Torque	55. Torque Speed (RPM)	56. Emiss Control Sys
	J2KH09A2-C	50-State	270	77.0/58.0	10° BTDC	6.3	3600	19.1 N.m	n 2500	EM
	J2KH10A2-C	50-State	270	77.0/58.0	10° BTDC	6.3	3600	19.1 N.m	n 2500	EM
	J2KH11A2-C	50-State	270	77.0/58.0	10° BTDC	6.3	3600	19.1 N.m	n 2500 .	EM
	J2KH12A2-C	50-State	270	77.0/58.0	10° BTDC	6.3	3600	19.1 N.m	n 2500	EM
	J2KH13A2-C	50-State	270	77.0/58.0	10° BTDC	6.3	3600	19.1 N.m	2500	EM
	J2KH1400R B	50-State	270	77.0/58.0	10° BTDC	6.3	3600	19.1 N.m	2500	EM
	J2KH15A2-C	50-State	270	77.0/58.0	10° BTDC	6.3	3600	19.1 N.m	n 2500	EM
	J2KH16A2-C	50-State	270	77.0/58.0	10° BTDC	5.9	3600	18.0 N.m	2500	EM